

**SHEET COILS AND LINEAR MOTORS COMPRISING SAME, AND STAGE
UNITS AND MICROLITHOGRAPHY APPARATUS COMPRISING SAID
LINEAR MOTORS**

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Abstract of the Disclosure

10 Sheet coils and linear motors including same are disclosed. Also disclosed
are stage units, exposure devices, and microelectronic-device manufacturing
methods employing the linear motors. The linear motors exhibit reduced viscous
resistance. The sheet coil includes at least one coil formed as a conductive wiring
trace on an insulative film substrate. The coil includes at least one slit extending in
the coil-winding direction. The slit usually separates the coil into multiple partial
coils that are connected to AC current having the same phase.